STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

15 West Yakima Avenue, Suite 200 • Yakima, Washington 98902-3452 • (509) 575-2490

July 13, 2001

Harold M Dobie
340 Eschbach Rd
Yakima WA 98908

Re: Amended Emergency Drought Permit G4-32949

In accordance with the provisions of RCW 43.83B.405, on March 14, 2001, it was ordered and determined by the Director of the Department of Ecology that the State of Washington is under drought conditions. In accordance with the provisions of WAC 176-166-060, the Department of Ecology is under the terms of this Order, issuing an EMERGENCY DROUGHT PERMIT. The intent of this authorization is to alleviate hardships and reduce the burdens on water users arising from the drought conditions.

The applicant submitted two Emergency Drought Applications. The first application is the subject of this report, and the second application No. G4-32976 will be rejected, as it is a duplicate application. The applicant has an initial water right from the Rosa Irrigation District (RID) to irrigate 25 acres, and purchases additional water from the RID to irrigate an additional 10 acres.

THIS AUTHORIZATION SHALL IN NO MANNER BE CONSTRUED TO GUARANTEE OR IMPLY THAT A FINAL (REGULAR) PERMIT WILL ISSUE FOR THE FUTURE USE OF THE WATER USE HEREIN AUTHORIZED.

The Department of Ecology has agreed to fund the cost of the mitigation or offsets for the impacts associated with the drought emergency authorizations. Ecology is attempting to meet the essential irrigation needs of farmers growing orchard crops, grapes and hops where the loss of irrigation water would permanently damage trees and vines. Essential needs have been defined as 75% to 80% of a usual irrigation water duty delivered by the irrigation districts.

This authorization is conditioned by the following provisions and limitations:

The quantity of water to be withdrawn is limited to 200 gallons per minute (gpm) and 64 acre-feet per year to irrigate 32 acres of orchard. This is based upon the instantaneous quantity requested and an annual quantity of 2 acre-feet per acre for orchard.

Water is to be used for supplemental irrigation of 32 acres of orchard from May 1 to October 31, 2001.

The place of use is described as follows:

The NW¼NE¼ of Section 30, T. 13 N., R. 20 E.W.M., EXCEPT:
That part of the NW¼NE¼ of Section 30, T. 13 N., R. 20 E.W.M., described as follows:
Beginning at the SE corner of said subdivision;
Thence N 0°31'30" E along the East line thereof, 659.41 feet;
Thence N 66°28'30" W 325.91 feet;

Thence S 0°31'30" W 252.00 feet;
Thence S 66°28'30" E 293.32 feet;
Thence S 0°31'30" W to the South line of said subdivision;
Thence N 89°58'30" E along said line to the point of beginning.
AND EXCEPT the West 25 feet thereof for county road.
Yakima County, Washington.

This authorization is for an existing new well located approximately 2800 feet north and 445 feet east from the center of Section 30 within the NW¼NE¼ of Section 30, T. 13 N., R. 20 E.W.M.

The well herein authorized shall be constructed as follows:

1. Constructed into and restricted to the Ellensburg Aquifer. The well must terminate at or above the first occurrence of solid, un-fractured basalt corresponding to the Pamona flow of the Saddle Mountains Formation. At the proposed locations, the Pamona flow is estimated to occur at approximately 530 feet below the ground surface.

OR:

2. Constructed into and restricted to the Saddle Mountains Aquifer as follows:

   a) The casing shall be set or placed (not driven) twenty (20) feet into the first solid, un-fractured, nonporous, non-vesicular basalt flow occurring at or below 550 feet, whichever is greater;

   (b) The well annulus shall be pressure grouted utilizing cement grout, neat cement or bentonite as a sealing agent from the bottom of the casing to the land surface;

   (c) The well annulus shall be at least four (4) inches greater in diameter than the permanent casing and;

   (d) The well depth shall terminate at or above a depth corresponding to the top of the Priest Rapids Member (basalt) of the Wanapum Formation, which should be encountered at a depth of approximately 930 feet.

   (e) Installation of an airline and access port for water level measurement is required.

OR:

3. Constructed into and restricted to the Saddle Mountains Aquifer as described above and used concurrently with the well authorized by Temporary Drought Permit G4-34509. The well authorized under G4-34509 is an existing well, located approximately 45 feet west of the new well drilled under authorization G4-32949. **In no case shall the combined water use from the two sources authorized under G4-34509 and G4-32949 exceed 200 gpm and 64 AF to irrigate 32 acres of orchard.**

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

A suitable flow meter approved by the Department of Ecology shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040. (Installation, operation and maintenance requirements attached hereto.)

Whenever water is being diverted, bi-weekly (every two weeks) readings of the flow meter shall be recorded and maintained by the permittee. These readings shall be documented by time, date, withdrawal rate, and the person conducting the measurements. Copies of these records shall be submitted to the Department of Ecology at the end of the 2001 irrigation season.

Withdrawal of water under this right may be limited or otherwise regulated in favor of senior rights.

Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the records of water use that are kept to meet the above conditions, and to inspect at reasonable times any measuring device used to meet the above conditions.

This drought emergency authorization expires on October 31, 2001.

Sincerely,

Robert F Barwin, Section Manager
Water Resources Program

PK:RFB:gg
010716

Enclosures: Flow Meter Requirements
cc: Yakama Nation

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
15 West Yakima, Suite 200 • Yakima, Washington 98902 • (509) 575-2490

REQUIREMENTS FOR INSTALLATION, OPERATION AND MAINTENANCE OF FLOW METERS ARE SET FORTH IN CHAPTER 508-64 WASHINGTON ADMINISTRATIVE CODE (WAC)

WAC 508-64-020 METER SPECIFICATIONS: All meters required to be installed, as provided under WAC 508-64-010, shall meet the following requirements:

(1) Meters shall be of the velocity-propeller type with enclosed propeller made of non-corrosive materials or of the sonic flow meter type. Positive displacement and other types of meters may be used with the express approval of the Department of Ecology. Although not cited in WAC 508-64, sonic flow meters have been approved by the Central Regional Office Water Resources Program of the Department of Ecology as an acceptable alternative to the velocity-propeller type meter. All meters shall be line meters. Meters shall be complete with meter head, register box with locking hasp, and straightening vanes for attachments to existing pipe or contained within a tube. The saddle or tube-type meters shall be of a construction such that any part of the propeller, gears, shafts, totalizer, or any other moving part can be removed for repair with relative ease. The saddle-type meter shall be designed and constructed so as to be suitable for welding or bolting to the existing or installed steel pipe but with removable meter head or designed so that it may be secured to the pipe by anchor bars welded to the pipe with U-bolts, or with threaded straps. All meters shall have the size, serial number, and direction of the flow through the meter properly and clearly indicated. (2) The meter shall have a rated accuracy of plus or minus 2 percent of actual flow for all rates of flow within the range of flow for which the meter is designed. The meter shall register the full range of discharge from the source of water for which it is to be used.

(3) The meter shall have a visual, digital totalizer located on or adjacent to the meter. The register shall be protected.

(4) Units of measure for irrigation uses shall be in acre-feet. The totalizer shall read directly in acre-feet with six digits to read to the nearest hundredths (0000.00). Both the register and meter unit shall be provided with a method of sealing with a wire or lead seal to prevent unauthorized tampering. For other uses, different units of measurement may be used with the express approval of the Department of Ecology. All totalizers or registers shall be equipped to enable taking instantaneous readings.

(5) Register Boxes - The register box shall have a protective hinged cover over the window glass. Register box screws shall be drilled for seal wire holes.

(6) Propeller - The propeller shall be made of polyethylene or equivalent corrosion-resistant material and such that it will operate effectively and without distortion at temperatures between 32° and 100° Fahrenheit. The propeller shall be located in the center of the pipe and normal to the centerline of flow. The measuring propeller, together with its spindle, shall be the same specific gravity as water or less.